



PD5018P(N) thru PD5030P(N)

GLASS PASSIVATED AUTO RECTIFIERS	REVERSE VOLTAGE -19 to 45Volts FORWARD CURRENT -50 Amperes						
FEATURES ● Low forward volage drop ● High current capability ● High reliability ● High surge current capability MECHANICAL ● Case: OFC Heat Sink ● Encap:Epoxy Sealed Rated UL94V-0 ● Weight: 7.05gram	PRESS-FIT <table border="1"> <tr> <th align="center" colspan="2">Ring color</th></tr> <tr> <td>P</td><td>Black</td></tr> <tr> <td>N</td><td>Brown</td></tr> </table> Dimensions in inches and (millimeters)	Ring color		P	Black	N	Brown
Ring color							
P	Black						
N	Brown						

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS					
Rating at 25℃ unless otherwise specified.					
Single phase,half wave,60HZ,resistive or inductive load .					
For capacitive load,deraaate current by 20%					
CHARACTERISTICS	SYMBOL	PD5018P(N)	PD5020P(N)	PD5030P(N)	UNIT
	MARKING	5018	5020	5030	
Maximum Peak Repetitive Reverse Voltage @Irrm=100mA	VRRM	19-24	24-32	34-45	V
Maximum RMS Voltage	VRMS	16	20	30	V
Maximum DC Blocking Voltage (TA=25℃)	VB	16	20	30	V
Maximum Average Forward Current Io@Tc=150℃ 60Hz,resistive or inductive load	I(AV)	50			A
Peak Forward Surage Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	600			A
Maximum Inst. Forward Voltage Drop, If at 100Amp	VF	1.05			V
Maximum DC Reverse Current (VB)@Tj=25℃ At Rated DC Bolcking Voltage (VB)@Tj=175℃	IR	10 150			uA
Operating Temperature Range	TJ	-40to+175			℃
Storage Temperature Range	TSTG	-40to+175			℃
REV. 1. 06-Arp-2012					

FIG.1-FORWARD CURRENT
DERATING CURVE

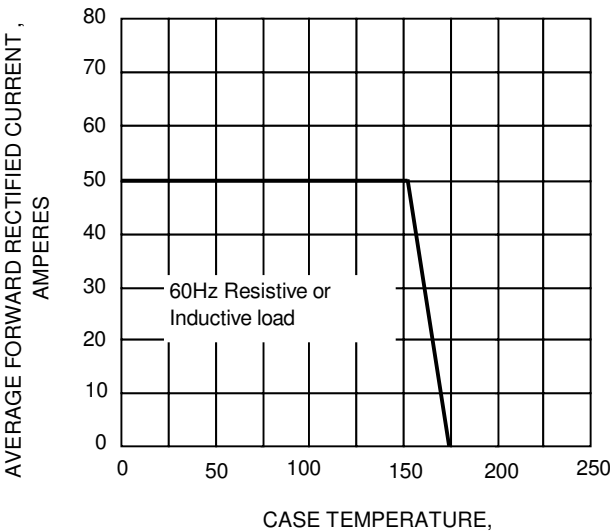


FIG.2-MAXIMUM NON-RETETITIVE PEAK
FORWARD SURGE CURRENT

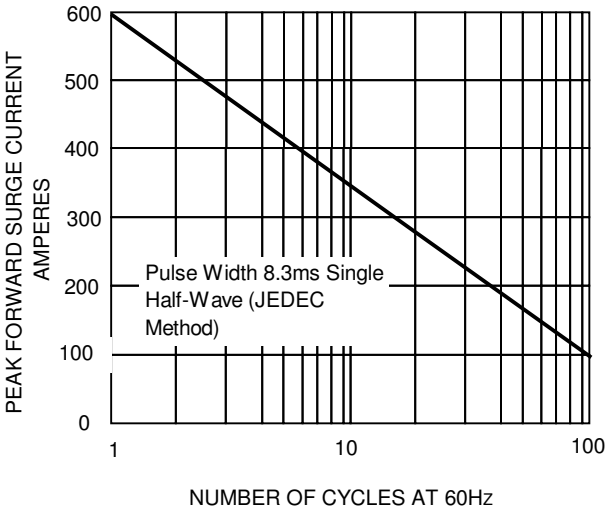


FIG.3 -TYPICAL INSTANTANEOUS FORWARD
CHARACTERISTICS

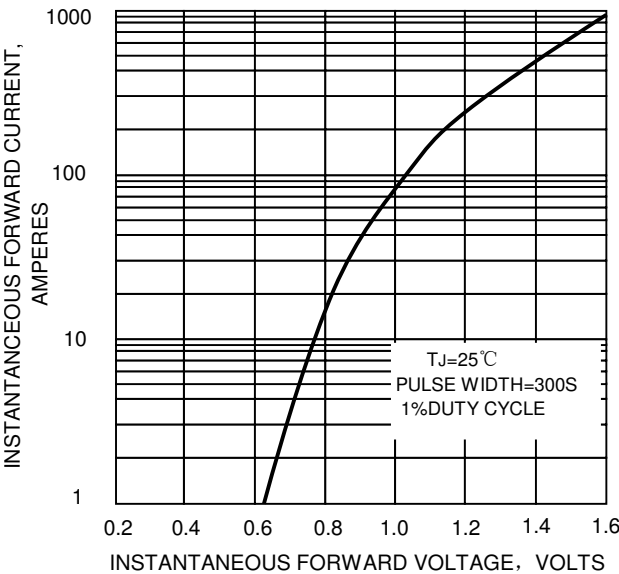


FIG.4-TYPICAL REVERSE
CHARACTERISTICS

